

**METHOD AND APPARATUS THAT ADAPTS CODING SCHEMES TO  
DATA RESOURCE LIMITS OF A MOBILE STATION COUPLED TO A  
PERIPHERAL DEVICE**

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**Abstract of the Disclosure**

A method (800) and apparatus (252, 205) are for adapting coding schemes used on a downlink channel of a wireless packet data communication system (100) to data resource limits of a mobile station (180, 270) coupled to a peripheral device (185, 280). The method includes transmitting (815) a set of data on the downlink channel to the mobile station using a current combination of coding schemes that have a current data rate, monitoring (820) whether a data transfer rate of the peripheral device has been exceeded, and establishing (840) an optimal combination of coding schemes to be the current combination of coding schemes when a search criterion that is based on whether the data transfer rate of the peripheral device has been exceeded is met (826). The monitoring includes determining whether intervals of acknowledgements transmitted from the mobile station on the uplink channel in response to the set of data meet (910) uniformity criteria.